

# TIRE AIR PRESSURE ALARM DEVICE

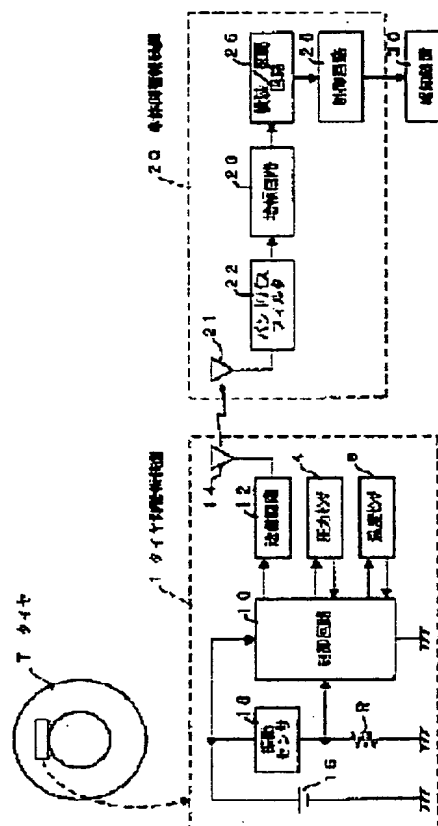
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## Abstract of JP2000355203

**PROBLEM TO BE SOLVED:** To quickly notify the abnormality in air pressure, restraining the power consumption for detecting/notifying the abnormality to the minimum as required, in a tire air pressure alarm device for detecting the abnormality in tire air pressure so as to notify the fact by radio to a car-body-side device.

**SOLUTION:** In a tire-side alarm device 1 incorporated into a tire T, a control circuit 10 is actuated as soon as a vibration sensor 18 detects the minute vibration of the tire T. The control circuit 10 drives a pressure sensor 4 and a temperature sensor 6 in order to detect the air pressure/temperature within the tire T, conducting the abnormality (lowering in air pressure and rising in temperature, resulting in a flat tire). At the time of the abnormality, the circuit 10 drives a transmitting circuit 12 in order to transmit a signal indicating the abnormal condition to a car-body-side alarm device 20. As a result, in the tire-side alarm device 1, the abnormality judgment is conducted while the car is running during which time the vibration is caused in the tire T, and, in case of the abnormality, it can be quickly notified to an occupant via the car-body-side alarm device 20 and a notifying device 30. On the other hand, at the time of parking/stoppage during which time no vibration is caused in the tire T, since the circuit is not actuated, the consumption of a battery 16 can be restrained.



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